

# Close-out of SpaceWire Working Group meeting #20

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1. System and mission requirements
  - a. We should pay more attention to mission & system requirements
  - b. Gaps had to be filled-in by mission teams (networking)
2. SpW Evolutions I – ECSS-ST-E-50-12C Rev.1
  - a. Layering agreed
  - b. Many examples of solutions replacing part the SpW internal stack
  - c. Next steps: SpW Signal Level and SpW Physical Level
3. SpW Evolutions II – SpaceFibre
  - a. Interoperability demonstrated
  - b. Demonstration over optical fibre
  - c. ECSS standardisation process to be initiated

1. SpW Evolutions III – SpW2
  - a. Harmonised with SpFi
  - b. Validation through simulation
  - c. Chips are being made available (ELVEES)
2. SpW for Cmd&Ctrl
  - a. Time Synchronisation protocol
    - Design quite mature
    - Effort required on “ECSS-like” spec
  - b. SpW-D detailed design and prototyping
    - Activity just starting
    - Lot of feedback from JAXA/ISAS

1. SpaceWire Network Management and Protocol Stacks
  - a. Discovery of SpW Network/SbP/std\_app
    - Mature protocol and service
  - b. (Re)configuration of SpW Network/SbP/std\_app mature
    - Mature protocol, service to be finalised/approved by WG
    - To be used also for the “IR” part of FDIR
  - c. Health check introduced (needs maturation, WG presentations)
  - d. Need for a convergence (N-MaSS) activity?
2. SpW component developments
  - a. Prototype switch before the end of 2013 (Aeroflex Gaisler)
  - b. Prototype LVDS drivers (and 4x cross-bar) before the end of 2013 (Aeroflex Gaisler)
  - c. Prototype extended common mode LVDS drivers soon?  
(Telekunken)

1. SpW Simulation, Test, and Verification
  - a. MOST mature
    - Close collaboration ESA/TAS-F
    - First release in Q2 2013
      - Licensing scheme similar to IPs (ESA member industry; low fee)
  - b. Simulation of SpWRT/SpFi
    - SDL/SystemC
2. SpaceWire Conference 2013
  - a. 11-13 June 2013 (10-14 extended programme)
  - b. Registration open (until ?)
  - c. Final papers latest 22 April 2013

# Meetings #21 and #22



## 1. Meeting #21

- a. 17-19 September 2013, ESTEC (Einstein)
- b. Confirmed

## 2. Meeting #22

- a. 15-17 April 2014, ESTEC (Einstein or Newton 1)
- b. TBC

Thank You  
for joining us for mtg#20  
See you at mtg#21